Contents, Volume 33, 1988-1989

July-August 1988

1 MAJOR REVIEW. ***Retinopathy of Prematurity.*** I. Ben Sira, M.D., I. Nissenkorn, M.D., and I. Kremer, M.D.

17 MAJOR REVIEW. ***Choroidal Osteoma.*** Carol L. Shields, M.D., Jerry A. Shields, M.D., and James J. Augsburger, M.D.

28 MAJOR REVIEW. ***Corneal Hypoesthesia.*** Xavier D. Martin, M.D., and Avinoam B. Safran, M.D.

41 DIAGNOSTIC AND SURGICAL TECHNIQUES. ***Pingueculae and Pterygia.*** Patricia A. Jaros, M.D., and Vincent P. DeLuise, M.D.

50 CLINICAL PATHOLOGICAL REVIEW. ***Invasive Squamous Cell Carcinoma of the Conjunctiva Presenting as Necrotizing Scleritis with Scleral Perforation and Uveal Prolapse.*** Kim A. Lindenmuth, M.D., Alan Sugar, M.D., Marilyn C. Kincaid, M.D., Christine C. Nelson, M.D., and Christopher P. Comstock, B.S.

55 CLINICAL CHALLENGES. ***Double Vision, Visual Loss, and an Enhancing Orbital Apex.*** Ronald M. Burde, M.D. ***Comments*** by John W. Gittinger, Jr., M.D., John L. Keltner, M.D., and Neil R. Miller, M.D.

62 BOOK REVIEWS

62 ***Degenerative Retinal Disorders: Clinical and Laboratory Investigations, edited by Joe G. Hollyfield, Robert E. Anderson, and Matthew M. LaVail.*** Scott E. Brodie, M.D., Ph.D.

63 ***Pediatric Ophthalmology and Strabismus, Transactions of the New Orleans Academy of Ophthalmology.*** Edward L. Rabb, M.D.

63 ***The Retina. An Approachable Part of the Brain, by J.E. Dowling.*** Adoph I. Cohen, Ph.D.

65 CURRENT OPHTHALMOLOGY

65 Michael Saunders comments on: ***Recovery of Vision After Ischemic Lesions: Positron Emission Tomography, by T.M. Bosley, R. Dann, F.L. Silver, et al***

66 Joseph A. Eliason, M.D., comments on: ***Entoptic Phenomena and Reproducibility of Corneal Striae Following Contact Lens Wear, by M.H. Johnson, C.M. Ruben, and D.M. Perrigin***

66 Daniel Goodman, M.D., comments on: ***HIV Antibody Screening of Corneal Donors, by K.R. Wilhelmus and E.J. Farge***

67 William B. Stewart, M.D., comments on: ***Modification of Bick's Procedure for Treatment of Eyelid Laxity, by J.J. Hurwitz, S.K. Mishkin, and K.J.A. Rodgers***

69 LETTERS. ***Congenital Esotropia: Search for Etiology.*** Samuel T. Jones, M.D. ***Response*** by Leonard Nelson, M.D.

71 TIME OPH. ***A Word to the Residents.*** Ben Milder, M.D.

September-October 1988

73 MAJOR REVIEW. ***Retinal Arterial Macroaneurysms.*** Maurice F. Rabb, M.D., Donald A. Gagliano, M.D., and Michael P. Teske, M.D.

97 MAJOR REVIEW. ***Oblique Muscle Palsies Fixating With the Paretic Eye.*** Carol Flabetich Dickey, C.O., William E. Scott, M.D., and Roy A. Cline, M.D.

108 CURRENT RESEARCH. ***Current Concepts of the Pathogenesis of Optic Neuritis Associated With Multiple Sclerosis.*** Robert C. Sergott, M.D., and Mark J. Brown, M.D.

117 HISTORY OF OPHTHALMOLOGY. ***Willard Parker's 1841 Orbital Operation.*** Jemshed A. Khan, M.D., and Daniel M. Albert, M.D.

121 CLINICAL CHALLENGES. ***Pigmented Tumor and Acute Visual Loss.*** Thomas F. Shuey, M.D., and Paul A. Blacharski, M.D.

127 AFTERIMAGES. ***Zygomaticofrontal Suture Defect Associated With Orbital Dermoid Cyst.*** Thomas W. Samuelson, M.D., Curtis E. Margo, M.D., Mark H. Levy, M.D., and Thomas J. Pusateri, M.D.

131 CURRENT OPHTHALMOLOGY

131 George Beauchamp, M.D., comments on: ***Fine Binocular Control in Dyslexic Children, by J.F. Stein, P.M. Riddell, and M.S. Fowler***

132 David Taylor, M.D., comments on: ***Congenital Ocular Blindness in Children, 1945-1984, by G.C. Robinson, J.E. Jan, and C. Kinnis***

133 Joanne Katz, M.S., and Alfred Sommer, M.D., comment on: ***Eyes or Patients? Traps for the Unwary in the Statistical Analysis of Ophthalmological Studies, by R.G. Newcombe and G.R. Duff***

134 LETTERS. ***Cryotherapy for Retinopathy of Prematurity.*** N.W. Hindle, M.D. Responses by Earl Palmer, M.D., and Creig Hoyt, M.D.

November-December 1988

137 MAJOR REVIEW. ***Retinitis Pigmentosa.*** Roberta A. Pagon, M.D.

178 THERAPEUTIC REVIEW. ***Pharmacologic Management of Keratomycoses.*** Karla J. Johns, M.D., and Denis M. O'Day, M.D.

189 CLINICAL CHALLENGES. ***Bumpy Muscles.*** Thomas L. Slamovits, M.D., and Ronald M. Burde, M.D. ***Comments by*** Lyn Sedwick, M.D., Steven Newman, M.D. and Barrett Katz, M.D.

201 CURRENT RESEARCH. ***Cataracts Induced by Microwave and Ionizing Radiation.*** Richard M. Lipman, M.D., Brenda J. Tripathi, Ph.D., and Ramesh C. Tripathi, M.D., Ph.D.

211 VIEWPOINTS. ***Advertising in Ophthalmology. I. A Threat to Professional Autonomy.*** Curtis E. Margo, M.D. ***II. A Defensible Aspect of Free Enterprise.*** Jonathan D. Trobe, M.D., and Joan H. Lowenstein, J.D. ***III. Editorial.*** Thomas L. Slamovits, M.D.

217 TIME OPH. ***Roundsmanship.*** Ben Milder, M.D.

January-February 1989

219 ***In Memoriam: Arthur Linksz.*** Arthur Jampolsky, M.D.

221 MAJOR REVIEW. ***Visual Disturbances of Migraine.*** Saunders L. Hupp, M.D., Lanning B. Kline, M.D., and James J. Corbett, M.D.

237 MAJOR REVIEW. ***Corneal Preservation.*** Steven E. Wilson, M.D., and William M. Bourne, M.D.

260 HISTORY OF OPHTHALMOLOGY. ***Eye Banking: 1944 to the Present.*** Emile J. Farge, Ph.D.

264 CURRENT RESEARCH. ***Pathophysiology of Laser Trabeculoplasty.*** E. Michael Van Buskirk, M.D.

273 CLINICAL CHALLENGES. ***Popping Eyes.*** Thomas Slamovits, M.D. ***Comments*** by John W. Gittinger, Jr., M.D., Lyn A. Sedwick, M.D., and John L. Keltner, M.D.

281 AFTERIMAGES. ***High Myopia as an Unusual Cause of Restrictive Motility Disturbance.*** Joseph L. Demer, M.D., and Gunter K. von Noorden, M.D.

285 CURRENT OPHTHALMOLOGY

285 Stephen A. Drance, M.D., comments on: ***Management of Intraocular Pressure During Cardiopulmonary Bypass, by D.F.P. Larkin, R. Murphy, J.B. Magner, and P. Eustace***

286 Tom Shults, M.D., comments on: ***Bilateral Optic Neuropathy and Osteolytic Sinusitis. Complications of Cocaine Abuse, by N.M. Newman, D.A. DiLoreto, J.T. Ho, et al***

February 1989 (Supplement)
Visual Function in Glaucoma

287 **Foreword.** Michael Kass, M.D., Symposium Chairman, *Washington University School of Medicine, St. Louis, Missouri*

291 **Tonometry in Question: Can Visual Screening Tests Play a More Decisive Role in Glaucoma Diagnosis and Management?** William Eric Sponsel, M.B., Ch.B., M.D., *University of Wisconsin-Madison School of Medicine, Madison, Wisconsin*

301 **Electrophysiological and Psychophysical Testing of Vision in Glaucoma.** Ivan Bodis-Wollner, M.D., *Mt. Sinai School of Medicine, New York, New York*

309 **Psychophysical Testing in Glaucoma.** Robert Stamper, M.D., *Pacific Presbyterian Medical Center, San Francisco, California*

319 **Correlation of Visual Function With Optic Nerve and Nerve Fiber Layer Structure in Glaucoma.** Joseph Caprioli, M.D., *Yale University School of Medicine, New Haven, Connecticut*

March-April 1989

331 MAJOR REVIEW. *Disc Hemorrhages in the Glaucomas.* Stephen M. Drance, O.C., M.D.

339 MAJOR REVIEW. *Ocular Choristomas.* Ahmad M. Mansour, M.D., John C. Barber, M.D., Robert D. Reinecke, M.D., and Frederick M. Wang, M.D.

359 AFTERIMAGES. *Unsuspected Infectious Keratitis in Host Corneal Buttons.* Thomas D. Lindquist, M.D., Ph.D., J. Douglas Cameron, M.D., Virginia R. Havener, B.A., Jonathan B. Rubenstein, M.D., Richard L. Lindstrom, M.D., and Donald J. Doughman, M.D.

367 CLINICAL CHALLENGES. *The Case of the Gray Optic Disc!* Michael C. Brodsky, M.D., Edward G. Buckley, M.D., and Allyn McConkie-Rosell, M.S.W.

373 CLINICAL PATHOLOGICAL REVIEW. *Neurofibromatosis and Neural Crest Neoplasms: Primary Acquired Melanosis and Malignant Melanoma of the Conjunctiva.* King W. To, M.D., Stephen M. Rabinowitz, M.D., Alan H. Friedman, M.D., Charles Merker, M.D., Colleen P. Cavanaugh, B.A.

381 THERAPEUTIC REVIEW. *Therapeutic Uses of Contact Lenses.* Mark L. McDermott, M.D., and John W. Chandler, M.D.

395 CURRENT OPHTHALMOLOGY
- 395 Creig Hoyt, M.D., comments on: *A Biometric Investigation of Late Onset Myopic Eyes, by N.A. McBrien, and M. Millodot*
- 395 William V. Good, M.D., comments on: *Abnormal Acuity Development in Infantile Esotropia, by S.H. Day, D.A. Orel-Bixler, and A.M. Norcia*
- 396 Todd Margolis comments on: *Does Herpes Simplex Virus Establish Latency in the Eye of the Mouse?, by C.M.P. Claoué, W.A. Blyth, T.J. Hill, and D.L. Easty*

398 TIME OPH. *I Never Saw a Purple Cow.* Benjamin Milder

April 1989 (Supplement)
Detection and Management of Early Glaucoma
(See also Chibret International Symposium)

399 **Foreword.** Bernard Schwartz, M.D., Ph.D.

PART I. INDICATORS OF EARLY GLAUCOMA

401 **Histology of Optic Nerve Damage in Ocular Hypertension and Early Glaucoma.** Don S. Minckler, M.D.

403 **Visual Field Changes in Early Glaucoma and How to Recognize Them.** Anders Heijl, M.D.

405 **Contrast Sensitivity Changes in Ocular Hypertension and Early Glaucoma.** Anthony J. Bron, M.D.

407 **Psychophysical Changes in Early Glaucoma.** Stephen Drance, M.D.

409 **Discussion.** Stephen Drance, M.D. (Moderator)

PART II. HEMODYNAMIC AND STRUCTURAL CHANGES IN EARLY GLAUCOMA

413 **Retinal Nerve Fiber Layer and Neuroretinal Rim Changes in Ocular Hypertension and Early Glaucoma.** P. Juhani Airaksinen, M.D.

415 **Topical Timolol and the Human Retinal Circulation.** Juan E. Grunwald, M.D.

417 **Optic Disc Changes in Early Glaucoma.** Yoshiaki Kitazawa, M.D.

419 **Reversibility by Timolol of Optic Nerve Disc Cupping and Pallor in Ocular Hypertensives.** Bernard Schwartz, M.D., Ph.D.

421 **Discussion.** Yoshiaki Kitazawa, M.D. (Moderator)

PART III. ALTERATION OF FUNCTIONAL DEFECTS IN EARLY GLAUCOMA

423 **Computerized Perimetric Monitoring and Study of Scotomatous Area Fluctuations in Timolol-Treated Open-Angle Glaucoma Patients.** José Pecori-Giraldi, Ph.D.

427 **Quantification and Monitoring of Visual Field Defects and a Prospective, Randomized Comparison of Pilocarpine and Timolol Using Computerized Perimetry.** William E. Sponsel, M.D.

429 **Early Visual Field Changes with Beta-Blocking Agents.** J. Collignon-Brach, M.D.

431 **The Effect of Treatment on Progression of Glaucoma.** Erik L. Greve, M.D.

435 **Discussion.** Erik L. Greve, M.D. (Moderator)

PART IV. SCREENING FOR GLAUCOMA

441 **Epidemiology as It Relates to Screening for Glaucoma.** Alfred Sommer, M.D.

443 **An Optimized Visual Field Screening Method.** David B. Henson, Ph.D.

445 **Value of Intraocular Pressure Measurement as a Screening Tool for Glaucoma.** Raymond LeBlanc, M.D.

447 **Ophthalmoscopy in the Detection of Optic Disc and Retinal Nerve Fiber Layer Changes in Early Glaucoma.** Kazuo Iwata, M.D.

449 **Discussion.** Bernard Schwartz, M.D., Ph.D. (Moderator)

PART V. PHYSIOLOGY AND PHARMACOLOGY OF BETA-BLOCKING AGENTS

451 **Physiology and Pharmacology of Alpha and Beta Receptors in the Eye.** Marvin L. Sears, M.D.

453 **Pharmacologic Effects of Beta-Blocking Agents Used in the Management of Glaucoma.** Ian M. James, M.D., Ph.D.

455 **Cardiovascular and Pulmonary Effects of Beta-Blocking Agents. Implications for Their Use in Ophthalmology.** Pierre Collignon, M.D.

457 **A Comparison of the Effects of Timolol Versus Betaxolol Ophthalmic on Cardiopulmonary Exercise Performance in Healthy Volunteers.** Kenneth Dickstein, M.D.

459 **Discussion.** Thom J. Zimmerman, M.D., Ph.D. (Moderator)

MODERATORS' CONCLUSIONS AND PANEL DISCUSSION, PARTS I-III

437 **Part I,** Stephen Drance, M.D.
438 **Part II,** Yoshiaki Kitazawa, M.D.
438 **Part III,** Erik L. Greve, M.D.
439 **Panel Discussion,** Bernard Schwartz, M.D., Ph.D.

PART VI. CURRENT MEDICAL THERAPY AND FUTURE TRENDS IN THE MANAGEMENT OF GLAUCOMA

461 Review of Clinical Studies of Beta-Blocking Agents. Thom J. Zimmerman, M.D., Ph.D.

463 Ten-Year Follow-Up of Timolol-Treated Open-Angle Glaucoma. Marc Goethals, M.D.

465 Pressure Compliance Test of the Optic Nerve Head: Influence of Different Antiglaucoma Drugs. Lutz E. Pillunat, M.D., and Richard Stodtmeister, M.D.

467 Overview of Efficacy and Local Tolerability of a New Timolol/Pilocarpine Combination. Roger Vogel, M.D.

469 Future Trends in the Management of Glaucoma. Roger A. Hitchings, M.D.

471 Discussion. Roger A. Hitchings, M.D. (Moderator)

MODERATORS' CONCLUSIONS, PARTS IV-VI

473 Part IV, Bernard Schwartz, M.D., Ph.D.
473 Part V, Thom J. Zimmerman, M.D., Ph.D.
474 Part VI, Roger A. Hitchings, M.D.

475 Conference Summary Bernard Schwartz, M.D., Ph.D.

May-June 1989

477 MAJOR REVIEW. ***Sebaceous Carcinoma of the Ocular Adnexa.*** Lawrence G. Kass, M.D., and Albert Hornblass, M.D.

491 DIAGNOSTIC AND SURGICAL TECHNIQUES. ***Diagnosing Acute Angle-Closure Glaucoma: A Flowchart.*** Stuart Fourman, M.D.

495 CLINICAL CHALLENGES. ***Empty Cavity and Giant Tears.*** Attilio Spallone, M.D.

502 CURRENT RESEARCH. ***Magnetic Resonance Imaging and Spectroscopy of Intraocular Tumors.*** Nancy H. Kolodny, Ph.D., Evangelos S. Gragoudas, M.D., Donald J. D'Amico, M.D., and Daniel M. Albert, M.D.

515 THE PRESENT SCENE. ***Video Display Units and Visual Function.*** Mordechai Rosner, M.D., and Michael Belkin, M.D.

523 HISTORY OF OPHTHALMOLOGY. ***Robert E. Wright and the Development of Facial Nerve Akinesia.*** Robert M. Feibel, M.D.

528 LETTERS. ***Galactose and Cataract,*** by Peter C. Clemens, M.D., Ph.D. ***Response,*** by Dwight Stambolian, M.D., Ph.D.

CONTENTS LISTING, Volume 33, 1988-1989

AUTHOR INDEX

SUBJECT INDEX